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U. S. S. R.

Economic

Engineering Works i/n Petr MONTIN. (Dates as in text)

1. NAME:

Engineering Works i/n Petr MONTIN.

(MASHINOSTROITEINY ZAVOD IMENI PETRA MONTINA) (3.12.42, 8.3.44, 7.9.45, 5.10.46, 14.11.47, 20.4.49, 8.9.50, 22.2.51, 30.11.51, 5.1.52).

The works were identified with the number 329 in the press on 8.3.44 but since the war the number has not been seen.

2. LOCATION:

SHAUMYANOVSKI Urban Raion of BAKU (16.1.47, 31.12.48, 24.6.50, 22.1.51).

The postal address of the Works is 10 EKSPORTNAYA ULITSA CHERNY GOROD, BAKU, AZERBAIJAN SSR.

3. CONTROL:

The Works belong to the "AZNEFTEZAVODY" Trust of the Ministry of Petroleum Industry (7.9.45, 23.11.46, 12.12.47, 5.4.49).

The Works previously (1933) belonged to the "AZNEFTEMASH" Trust to which most enterprises producing oil equipment belong, and were subsequently transferred to the "AZNEFTEZAVODY" Trust.

4. HISTORY:

It is not known when the Works were founded. They were in existence in 1933. During the war the Works produced munitions and various rewards were received by workers in this connection.

5. PRODUCTION:

-	Slide valve Cooks (KRAN	es (Z <i>I</i> I)	ADVIZHKA	7)			
	IIDMT-800II 7	orton)	oroj	/mmo	TPA 7P4 TY	OM ANTONIA	. \
_	11 11 11 11 11 11 11 11 11 11 11 11 11	OTTIE	s brane	(BURO	VAXA U	STAMOV KI	<i>T</i>)
	Mmi tiona /	 	1.01				
		10.2	444)	74	/7.0	\	
_	Pumps for oil regining plant (7.9.45)						
	Drills (DOI	かなんごささ	TITIIN	winon	es (/•	9•45)	
	DITTIS (DOE		INA) IOI	. the	expand	ing or	
						•	/
	Compressor	Cast.	ngs ror	tne	BODEMA	Y Works	$(7 \cdot 9 \cdot 45)$
_	oast Iton s	nic cc	nuore bi	.pes (DAOTMT	k) with	
	" " " " " " " " " " " " " " " " " " "	TIROD.					
	HATTEL I	ype s	ream pi	ston :			
	"MPN-4"						
	"MPN-5"	17	11		11		
			11	II .	17		
	"MPN-8"	11	11	11	11		
	Centrifugal	pump	s produ	ced by	y the V	orks fo	r the
	first time	(5•1	0.46).	•			
	Milling mao	hines	(SHADO	AHE T	or William	ATMAN TO	beo ž bo
	by the Wor	ks fo	the f	in the		1	
			Also I	3 K		1	8
		Slide valve Cooks (KRAN Drill bits "PTI-800" h """ Munitions (Pumps for of Tractor dra Drills (BOF pir Compressor Cast iron a square fla "MFK-1-2" T "MFN-1-2" "MFN-5" "MFN-6" "MFN-6" "MFN-8" Centrifugal first time Milling mao	Slide valves (ZACooks (KRAN) Drill bits (DOLG "PTI-800" boring """" Munitions (10.2. Pumps for oil ref Tractor drawn dr Drills (BORMASH) pipes (Tompressor casti Cast iron and do square flanges. "MPK-1-2" Type s "MPN-1-2" " "MPN-4"" "MPN-5"" "MPN-6"" "MPN-6"" "MPN-6"" "MFN-8" Centrifugal pum first time (5.1 Milling machines	Cooks (KRAN) Drill bits (DOLOTO) "PTI-800" boring plant """"""" Munitions (10.2,42) Pumps for oil refining Tractor drawn drilling Drills (BORMASHINA) for pipes (7.9.45) Compressor castings for Cast iron and double pi square flanges. "MFK-1-2" Type steam pi "MFN-1-2" "" "MFN-4" """ "MFN-5" """ "MFN-6" """ "MFN-8" "" Centrifugal pumps produ first time (5.10.46). Milling machines (SHAPA	Slide valves (ZADVIZHKA) Cooks (KRAN) Drill bits (DOLOTO) "PTI-800" boring plant (BURO """"""""""""""""""""""""""""""""""""	Slide valves (ZADVIZHKA) Cooks (KRAN) Drill bits (DOLOTO) "PTI-800" boring plant (BUROVAYA U """"""""""""""""""""""""""""""""""""	Slide valves (ZADVIZHKA) Cooks (KRAN) Drill bits (DOLOTO) "PTI-800" boring plant (BUROVAYA USTANOVKA """""""""""""""""""""""""""""""""""

1946 Copper sluice val es (KLINKETOVAYA ZADVIZHKA) produced by the works for the first time (5.10.46 Steam pumps (16.7.46) Return bends (RETURBEND) (16.7.46) Cast iron pipes (16.7.46) Small turbines (TURBINKA) (16.7.46) Bronze sluice valves (9,3,46) HCOK's joints (SHARNIR GUKA) (9.3.46) Universal pneumatic small turbines which rotate milling machines through the medium of HOOK's joints (9.3.46). Small turbines for 21, 4" and 6" pipes. 1947 1948 "PTM-T" small turbines "PTM-6" 1949 Steel sluice valves (24.8.49) 1951 New oil equipment (10.11.51) High pressure slide valves (13.12.51) Return bends (3.10.51) Steel fittings (3.10.51) Cast iron pipes (3.10.51) 1952 Flange forgings (31.1.52)

6. OUTPUT:

No definite information is available about output. In the press (17.4.51) it was mentioned that during the first quarter of 1951 the forge had produced 90 tons of forgings over and above the plan.

7. PERSONNEL:

```
NASIROV Z.
                  Director (3.10.51)
 YUSUF-ZADE RASUL IBRAGIMOVICH - Former director (8.3.44, 27.7.45,
                                  13.8.46, 15.1.49).
 SHIFRIN DANIIL LNOVICH - Chief engineer (3.7.44, 26.7.46, 3.10.51).
                                  Acting director during the interval between
                                  the departure of YUSUF-ZADE and the arrival
                                  of NASIROV (8.9.50, 5.1.51).
SATTAROV MAHED
                      Chief Power Engineer (GLAVNY ENERCETIK) and head of the
                       Electrical Shop (8.9.50. 22.2.51)
FATALIEV A.
                      Head of the Planning Section (5.1.51)
DANIELYAN -
                      Chief mechanical engineer (26.7.46)
DANIELYAN G.
                      Head of the Fittings Shop (ARMATURNY TSEKH) (2.3.46,
                                                                      8.9.50).
DADASHYAN S.
                      Head of the Machine Assembling Shop (5.1.51)
                      Head of the Foundry (8.9.50)
" " Forge (30.12.51. Former head of the
KLIMENKO G.
SHCHETINSKI V.
                       Machine Assembling Shop (8.9.50).
ANISHCHENKO P.
                      Former head of the Forge (8.9.50).
NADTOCHI
                      Head of the Tool Shop (5.1.52)
                      Engineer. Head of a shop or section (2.3.46)
SUBBOTIN
KAREV
                                                             (2.3.46)
LAPIN
                      Former head of the Fittings Shop (23.11.47)
                      A former head of the Machine Assembly Shop (7.9.45)
NAZAROV
                      Chief metallurgist (7.9.45)
Chief technologist (26.7.46)
KLIMENKO
MAMEDOV
SEVASTYANOV
                      Head of the Technical Control Section (26,7.46)
                      Former chief engineer (27.7.45)
ARAKELOV
ALSHVANG
                      Engineer (26.7.46)
MONTINA MARIYA VASILEVNA - Engineer. Born 1893. Party member (8.12.50)
                      Secretary of the Party Organisation (27.7.45, 13.8.46,
AGARONOV A.
                       24.10.50, 3.10.51)
MYAGKOV M.
                      President of the Works Trade Union Committee (27.7.45,
                       8.9.50, 3.10.51)
TALYBOVA Kh.
                      Secretary of the "Komsomol" Organization (8.9.50,
                       5.1.51, 3.10.51
PUPYKINA
                      Editor of the Works "Well"
                                                 newspaper
                                                                          50X1-HUM
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8. SHIFTS:

Probably three shifts.

9. SHOPS:

- a) Fittings Shop (ARMATURNY TSEKH). This shop was installed in March 1945 (15.3.51, 11.1.52). It is equipped with moulding machines.
- b) Machine Assembly Shop (MEKHANOSBOROCHNY TSEKH). Produced pumps for oil refinery plants, tractor winches for drilling etc., and has mastered the production of drilling machines for expanding pipes in oil refining plants (7.9.45, 17.3.50, 15.3.51, 11.1.52)
- o) <u>Forge</u> (11.3.50, 15.3.51, 30.12.51, 31.1.52)
- d) <u>Cleaning Shop</u> (OHRUBOCHNY TSEKH) (31.1.52)
- e) Foundry (8.9.50, 15.3.51, 31.1.52)
- f) Hot Shop (GORYACHI TSEKH) (Possibly the forge) (17.4.51, 11.1.52)
- g) <u>Flectrical Shop</u> (22.2.51)
- h) <u>Pipe-rolling Shop</u> (TRUBOPROKATNY TSEKH) (5.1.51)
- i) <u>Tool Shop</u> (5.1.52)
- Steel Foundry. Was to have been built together with the Machine Assembly Shop during the 1946-1950 Five Years Period (19.5.46).
- k) New Fittings Shop (5.1.51)

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11. MISCELLANEOUS:

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A few extracts from the press which are given below give some idea of the efficiency of the Works.

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- a) In August 1945 the Works produced goods in excess of the program
 One of the shops overfulfilled the program by 14% (7.9.45).

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- b) By the end of October 1946 the Works had completed 11 months; program and produced goods to the value of 1,600,000 roubles in excess of the plan (5.10.46).
- by 30% (14.11.47) and the value of the output in excess of program was 4,000,000 roubles (23.11.47).
- d) In 1948 the Works made a profit of 1500,000 roubles (15.1.49) and the program was carried out efficiently ahead of schedule (3.12.48, 1.3.49).
- e) During the first quarter of 1949 the Works produced goods in excess of the program to the value of 1,784,000 roubles (20.4.49)
- f) In 1950 the program was over-fulfilled and productivity increased 50X1-HUM by 12.5%.
- g) In January 1951 it was stated that during the post-war 5 Years Plan as a result of the introduction of new equipment and the latest

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operational methods the output was doubled and productivity increased by 80%. During the last three years of the Plan the Works accumulated funds of over 5,000,000 roubles in excess of the program 5.1.51).

During the third quarter of 1951 the Works obtained a third prize.

During the last months of 1951 the increase in output of some articles of production compared with the previous year was as follows: return bends 41.5%, steel fittings 109.8% and cast iron pipes 20.8%.

At the end of 1951 the enterprise was given the title of "Collective Stakhanovite" Works" (30.11.51).

However in January 1951 the acting director of the Works admitted, in an article, that considerable losses were being borne by the Works as a result of rejects. 9.4% of the annual output of iron castings were rejected (5.1.51).

h) In April 1952 it was stated that the Works had not fulfilled the State program during the first quarter of 1952 in respect of certain articles (20.4.52).

In May 1952 it was announced that the Works had fulfilled the four months' program ahead of schedule and had produced new and modern equipment for the Petroleum Industry (4.5.52).



APPENDIX I.

Below is given the source from which information in respect of some of the articles produced by the Works was obtained:-

Description	Remarks
:Flanges (FLANETS) :Slide valves (ZADVIZHKA) :Cocks (KRAN) :Drill bits (DOLOTO)	Manual of Machine Building Industry of the U.S.S.R. 1933. Page 124.
"PTI-800" Boring plant. (BUROVYE USTANOKI TIPA "PTI-800"	Handbook of Oil-well Drilling 1947. EVSEENKO. Page 428. 50X1-HUM
:Cast iron and double pipes with square flanges. :(TRUBY CHUGUNNYE I DVOINIKI S :KVADRATNYMI FLANTSAMI)	Handbook of the Builder and Assembler of the Oil Industry 1946. M.M. BASHILOV. Page 53. 50X1-HUM
:Steam Piston Pumps - Types :"MPK-1-2" "MPN-1-2", "MPN-4", :"MPN-5", MPN-6", "MPN-8". :(PAROVYE PORSHNEVYE NASOSI. :TIPOV"MPN-1-2" eto).	-ditto- Page 59.50X1-HUM
: Small turbines (TURBINKA) for $2\frac{1}{2}$ ", 4" and 6" pipes.	NEFTYANOE KHOZYAISTVO. December, 1947. Page 59.
: Small turbines - types :"PTM-T" and "PTM-6" : :	NEFTYANCE KHOZYAISTVO. December, 1948. Page 41. "Operator of a Thermic Cracking Plant, PICHUGIN". Pages 132, 133. 50X1-HUM



ATTACHMENT TO APPENDIX I.

"PTI-800" Boring Plant.

- 1. This plant was produced by the Works in 1939 and 1940 in conjunction with the Works i/n LENINA to an "AZINMASH" design. It is used for boring wells to a depth of 800 metres by means of 5/16" drill pipes.
- 2. The plant is composed of the following main parts:
 - a) "LT2M-65" tractor elevator adapted for work in connection with well boring.
 - b) "R460-SHZ" rotor with an individual drive from an independent Diesel engine "M-17-CHTZ" with a gearbox, mounted on a common framework.
 - Pump aggregate operated by "RA-400" equipment, composed of two "NG-4" sludge pumps, single shaft clay mixer and a "M-17" Diesel engine with transmissions, mounted on a trailer platform with a

ATTACHMENT TO APPENDIX I.

Cast Iron and Double Pipes with Square Flanges.

a) Cast Iron Pipes:

Material - Cast iron "SCH-32"

Weight of pipe 84 kgs.

Temperature of working surroundings not more than $300^{\circ}\mathrm{C}$ and maximum pressure not more than 13 kgs per square om.

b) Double Pipes:

Material - Cast iron "SCH-32"

Weight of pipe 32 kgs.

Temperature of working surroundings not more than 250°C and working pressure 10 kgs per square cm.



ATTACHMENT TO APPENDIX I.

Steam Piston Pumps

Max. pressure in atm.	put	Number of double strokes p/min.		Admissible temperature for pumping liquids,in degrees C.	Size cyline steam	ders stroke	: Approx. :weight :in kgs. :	:Required :steam :pressure :in atm. :
20	60	3 0	: MPK-1-2	200	520	1 70: 3 05	: : 3230	4
: 2d	60	3 0	MPN -1- 2	cold oil products	32 0	170: 3 05	: : 3700	: 4 :
: 20	3 5	25	MPN-4	-ditto-	356	150: 3 05	: : 3050	: : : : : : : : : : : : : : : : : : :
25	100	16	MPN⊶5	200	356	150: 580	: : 8200	: 5 :
25	60	25	mpn-6	200	640	200: 420	: : 6200	: 4 :
25	60	25	mpn-6	cold oil	640	200: 420	: : 6550	: 4 :
15	15	25	MPN-8	products 200	3 00	120: 310	: : 19 3 0	: 4 :
15	15	25	MPN-8	c old oil prod ucts	3 00	120: 310	: 2150 :	4 :

ATTACHMENT TO APPENDIX I

Small Turbines Types "PTM-T and "PTM-6"

PTM stands for PAROVAYA TORBINKA MONTINA (Small steam turbine from the MONTIN Works). The letter "T" after "FTM" in the first title stands for "TANDEM" and the figure "6" in the second denotes the number of blades in the turbine.

The "PMT-6" is an improved type of small turbine. It differs from other types in that its blades are made of "TEXTOLITE" as opposed to steel and do not require lubrication. It permits the milling cutter (SHAROSHKA) and breaking hammer (OTBOINY MOLOTOK) to operate simultaneously and ensures a high output.

During free running trials, the revolutions in the case of the two types of turbines differed. With a compressed air pressure of 8 atm. the "PTM-T" turbine developed 4500 rpm and the "PTM-6" - 4450 rpm. At a pressure of 4 atm. the "PTM-T" turbine developed 4200 rpm and the "PTM-6" 3900 rpm.

These small turbines are used for removing coke from the pipes of furnaces in cracking plants.

Details of operations and comparative tables of these turbines are available.

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APPENDIX II.

In addition to the books and the periodicals mentioned in Appendix I, the undermentioned Soviet newspapers dating from 1945 to 1952. have provided material for the compilation of this report.

"BAKINSKI RABOCHI"
"IZVESTIYA"
"KOMMUNIST ARMENI"
"KOMSOMOLSKAYA FRAVDA"
"PRAVDA"
"TRUD"
"TRUD"
"VEDOMOSTI VERKHOVNOGO SOVETA SSR"
"ZARYA VOSTOKA".

The dates on which the relevant information was published in the a/m newspapers are enclosed in brackets in the text of the report.

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